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Ju-Han Kim

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EXAMINER

YOUNG, NICOLE M

ART UNIT

PAPER NUMBER

2139

MAIL DATE

DELIVERY MODE

09/28/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

MN

Office Action Summary

Application No.

10/749,649

Applicant(s)

KIM ET AL.

Examiner

Nicole M. Young

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 8-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 8-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 July 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This communication is in response to the amendment filed July 23, 2007. Claims 1-6 and 8-19 are pending. Claim 7 has been cancelled. Claims 1, 2, 4-6, and 8 have been amended.

Drawings

The drawings have been amended and the objection is withdrawn.

Claim Rejections - 35 USC § 101

The claims have been amended and the 35 USC 101 rejections are withdrawn.

Claim Rejections - 35 USC § 112

The claims have been amended and the 35 USC 112 rejections are withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Cross et al. (US 2004/0162786) herein referred to as Cross.

Claim 1 discloses (Currently Amended) an integrated security information management system, comprising:

an Extensible Markup Language (XML) key managing (figure 7 XKMS Client 776 and associated text) server to ~~means for performing on~~ interface with an external security information management client based on an XML, ~~authenticating to~~ authenticate a user, ~~analyzing to analyze~~ a request from the an integrated security information management client, and ~~requesting to send a processing request a~~ processing to an access control ~~means~~ server, wherein the access controls server comprises (Logon Screen 760 and associated text), an authenticating means or an external public key infrastructure certification server (figure 6, key pair 608 and associated text) an authenticating means or an external public key infrastructure certification server depending on a request kind (Fig. 6 and 7 and associated text where the Digital Identification Management Service is interpreted to be the integrated security information management system);

the access control ~~means~~ server ~~for providing to provide~~ a user authenticating function (Logon Screen 760 and associated text, also paragraph [0025]), an access authority

policy generating function for a limited shared data storing means unit (paragraph [0025], "authentication...digital ID's"), an access authority confirming function depending on the access authority policy (paragraph [0025], "authentication...digital ID's"), a shared security information providing function for an access-allowed user (paragraph [0025] where in "authentication...digital ID's" shares security information), a security information position information providing function (paragraph [0025] wherein "authentication...digital ID's" provides security information), a shared security information registering/deleting/updating function (paragraphs [0025] and [0044] wherein "The DIMS...IDs" includes "storing, retrieving, deleting, listing (enumerating) and verifying digital ID's"), a shared security information share setting/releasing function (paragraphs [0025], [0044], and [0052] wherein the shared security information setting function refers to "with proper permissions set"), and an XML digital signature/verification/encryption/decryption/communication security function depending on a shared security information processing request from the XML key managing means server (Fig. 6 and 7 and associated text, especially 609 and 776), wherein the access control server uses a signature received from a security information owner according to the request of the integrated security information management client to further perform a security information share-agency setting function for allowing other users to set/release a share and a function of informing the security information owner of a security information share-agency setting request (paragraphs [0046] and [0071] and [0072] which describe an enterprise trust model with multiple clients; In paragraph [0053] Cross teaches personal stores that store the user's digital IDs. These personal

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stores are also used for "signing and decrypting the user's messages". The Examiner interprets this to be a personal share setting request. In paragraph [0054] Cross teaches an API that uses "query, write, modify, create, or delete commands to perform actions on the credentials". The Examiner interprets these credentials to be share-agency setting requests as well.);

the authenticating ~~means~~ server for ~~providing~~ to provide the user authenticating function (paragraph [0025], "authentication...digital ID's"), a person-in-question authenticating function (paragraph [0025] where credential management is interpreted to be person-in-question)), a non-shared security information providing function for the access-allowed user (the person-in-question) (paragraph [0052] where permissions are interpreted to be information providing function), a security information position providing function, a non-shared security information registering/modifying/deleting function (paragraph [0053] where the personal store is not shared), and the XML digital signature/verification/encryption/decryption/communication security function depending on a non-shared security information processing request from the XML key managing ~~means~~ server (paragraph [0070] "XML Key Management...trust information");

the limited shared data storing ~~means~~ unit for storing and managing to store and manage security information shared by an object limited depending on a control of the access control ~~means~~ server (paragraph [0052] pertaining to permissions); and

a non-shared data storing ~~means~~ unit for ~~storing and managing~~ to store and manage security information that should not be shared depending on control of the

authenticating ~~means~~ server (paragraph [0053] where My Store is not scared, also "while any digital ID...user's messages").

Claim 2 discloses (Currently Amended) the integrated security information management system as recited in claim 1, wherein in the access authority confirming function depending on an access authority policy of the access control ~~means~~ server, if the access control ~~means~~ server receives an access request to the limited shared data storing ~~means~~ unit from the XML key managing means server, after a user authentication is performed, the access authority policy corresponding to the requested security information is read to confirm whether or not a user has authority (Fig. 6 and 7 and paragraph [0025]).

Claim 3 (Original) discloses the integrated security information management system as recited in claim 2, wherein when the user registers the security information through the integrated security information management client, the access authority policy is generated and is continuously and dynamically updated depending on updating/deleting and share setting/releasing of the security information later registered (paragraphs [0053] and [0054]).

Claim 4 (Currently Amended) discloses the integrated security information management system as recited in any one of the claims 1 to 3, ~~wherein the access control means and~~

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the authenticating ~~means~~ server uses a the signature received from a the security information owner according to the request of the integrated security information management client to further perform a security information share-agency setting function for allowing other users to set/release a share and a function of informing the security information owner of a the security information share-agency setting request (paragraph [0046]).

Claim 5 (Currently Amended) discloses the integrated security information management system as recited in claim 4, wherein the access control ~~means~~ server and the authenticating ~~means~~ server uses a signature and a certificate issued from other users according to the request of the integrated security information management client to further perform a shared security information retrieving function for retrieving the security information shared by a self, a shared security information retrieval confirming function for informing the security information owner of execution of the shared security information retrieving function depending on the execution, and a shared security information usage log confirming function for confirming a log for a shared security information usage (paragraphs [0046] and [0071] and [0072] which describe an enterprise trust model with multiple clients).

Claim 6 (Currently Amended) discloses an integrated security information management method, comprising the steps of:

classifying security information depending on its kind according to a security information registering/updating/deleting request from an integrated security information management client to register/update/delete the classified security information from a limited shared data storage or a non-shared data storage at an integrated security information management system (paragraphs [0044] "The DIMS... digital ID's" and [0088] pertaining to renewing digital ID's and life cycle functions);

setting/releasing a share for the security information registered into the limited shared data storage according to a security information share setting/releasing request from the integrated security information management client, and generating/updating a security access authority policy at the integrated security information management system (paragraphs [0053] and [0054], ""the user can...management tasks");

confirming a request user's authority depending on a security access authority policy according to a shared security information providing request from the integrated security information management client, and then providing corresponding security information for the integrated security information management client at the integrated security information management system (Fig. 6 and 7 and paragraph [0025], where in "authentication... digital ID's" confirms and provides security);

authenticating that a request user is a non-shared security information owner according to a non-shared security information providing request from the integrated security information management client, and then providing corresponding security information for the integrated security information management client at the integrated

security information management system (Fig. 6 and 7 and paragraph [0025]m where in "authentication...digital ID's" authenticates and provides); and

generating/verifying a digital signature according to a digital signature generating/verifying request using an XML from the integrated security information management client at the integrated security information management system (Fig. 6 and 7 and paragraphs [0025] and [0046] "use in authentication, digital signature, encryption/decryption processes"); and

informing a security information owner of a security information share-agency setting request according to an other owners' security information share-agency setting request from the integrated security information management client to receive acknowledgement, and then allowing other users to use a signature received from the security information owner to set/release the share for corresponding security information at the integrated security information management system. (paragraphs [0046] and [0071] and [0072] which describe an enterprise trust model with multiple clients; In paragraph [0053] Cross teaches personal stores that store the user's digital IDs. These personal stores are also used for "signing and decrypting the user's messages". The Examiner interprets this to be a personal share setting request. In paragraph [0054] Cross teaches an API that uses "query, write, modify, create, or delete commands to perform actions on the credentials". The Examiner interprets these credentials to be share-agency setting requests as well. This share setting allows users to set or release a share.)

Claim 8 (Currently Amended) discloses the integrated security information management method as recited in claim 6 ~~or 7~~, further comprising the step of:

informing the security information owner of a security information verifying request according to an other owners' security information verifying request from the integrated security information management client to receive acknowledgement, and then providing a verified result of other owners' security information for the integrated security information client at the integrated security information system (paragraphs [0046] and [0071] and [0072] which describe an enterprise trust model with multiple clients).

Claim 9 (Original) discloses the integrated security information management method as recited in claim 8, wherein the security information registering / updating / deleting step comprises the steps of:

a user's requesting an extensible XKMS server of the integrated security information management system for security information registration / update / deletion through the integrated security information management client;

authenticating the request user and confirming a security information kind at the extensible XKMS server;

as the confirmation result, if the security information kind is sharable, sending the request to an access control server to register / update / delete the security information from-a limited shared data storage; and

as the confirmation result, if the security information kind is non-sharable, sending the request to an authentication server to register / update / delete the security information from a non-shared data storage (Figures 6 and 7 and associated text, particularly paragraphs [0124]-[0127] which explain XKMS Client 776 and how it interacts with the life cycle manager) (Figures 6 and 7 and associated text, particularly paragraphs [0124]-[0127] which explain XKMS Client 776 and how it interacts with the life cycle manager).

Claim 10 (Original) discloses the integrated security information management method as recited in claim 8, wherein the security information share setting/releasing step comprises the steps of:

a user's requesting the extensible XKMS server of the integrated security information management system for security information share set/release through the integrated security information management client;

authenticating the request user at the extensible XKMS server, and then sending a security information share setting/releasing request to the access control server; and loading an access authority policy for corresponding security information at the access control server, and then confirming whether or not the access authority policy is set to allow the request user to share; and

as the confirmation result, in case the access authority policy is set to allow the request user to share, reading the corresponding security information from the limited shared data storage to send the read security information to the request user through

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the integrated security information management client (Figures 6 and 7 and associated text, particularly paragraphs [0124]-[0127] which explain XKMS Client 776 and how it interacts with the life cycle manager).

Note: Examiner has pointed out particular references contained in the prior arts of record and in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable to the limitations of the claims. It is respectfully requested from the applicant, in preparing for response, to consider fully the entire reference as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the Examiner.

Response to Arguments

Applicant's arguments filed July 23, 2007 have been fully considered but they are not persuasive.

With respect to claim 1, the Applicant argues that Cross fails to teach the limitation of a share-agency setting request. The Examiner respectfully disagrees. In paragraph [0053] Cross teaches personal stores that store the user's digital IDs. These personal stores are also used for "signing and decrypting the user's messages". The Examiner interprets this to be a personal share setting request. In paragraph [0054]

Cross teaches an API that uses "query, write, modify, create, or delete commands to perform actions on the credentials". The Examiner interprets these credentials to be share-agency setting requests as well. This share setting allows users to set or release a share. The Applicant argues that Cross does not teach informing the security owner of the share settings. The Examiner respectfully disagrees. The API is used for the DIMS as explained in paragraph [0040]. The DIMS has been interpreted to be the integrated security information management system, therefore the DIMS is informed of the share setting changes.

Claims 2-5 depend upon claim 1 that has been rejected above. That is combined with their individual rejections. Therefore, the rejections of claims 2-5 are maintained.

In regard to claim 6, the Applicant argues that Cross does not teach informing the security owner of the share agency setting request. The Examiner respectfully disagrees. In paragraph [0053] Cross teaches personal stores that store the user's digital IDs. These personal stores are also used for "signing and decrypting the user's messages". The Examiner interprets this to be a personal share setting request. In paragraph [0054] Cross teaches an API that uses "query, write, modify, create, or delete commands to perform actions on the credentials". The Examiner interprets these credentials to be share-agency setting requests as well. This share setting allows users to set or release a share. The Applicant argues that Cross does not teach informing the security owner of the share settings. The Examiner respectfully disagrees. The API is used for the DIMS as explained in paragraph [0040]. The DIMS has been interpreted to

be the integrated security information management system, therefore the DIMS is informed of the share setting changes.

Claims 8-10 depend upon claim 6 that has been rejected above. That is combined with their individual rejections. Therefore, the rejections of claims 8-10 are maintained.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicole M. Young whose telephone number is 571-270-1382. The examiner can normally be reached on Monday through Friday, alt Fri off, 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NMY
9/19/2007


SYED A. ZIA
PRIMARY EXAMINER